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In the Claims:

1. (Original) A semiconductor wafer having an asymmetric edge profile (EP) extending between an inner edge profile (EP_{in}) and an outer edge profile (EP_{out}) as illustrated by FIG. 1, which is incorporated herein;

wherein t is a thickness of the semiconductor wafer, ϕ_1 is an angle in a range between about 30° and about 85°, R is a radius of an arc that defines EP_{in} at a point of intersection with a top surface of the semiconductor wafer, and α is an acute angle that represents an angle of intersection between a bottom surface of the semiconductor wafer and a line that is tangent to the arc at a point on EP_{out}; and

10 wherein:

$$A_1 = R(1-\cos\phi_1);$$

$$A_2 = R(1-\sin\alpha) + (t-R\sin\phi_1 - R\cos\alpha)\cot\alpha;$$

$$B_1 = R\sin\phi_1; \text{ and}$$

$$B_2 = t-R\sin\phi_1.$$

- 2. (Original) The wafer of Claim 1, wherein R is in a range between about 0.23t and about 0.5t.
- 3. (Original) The wafer of Claim 2, wherein A_2 is greater than about two times A_1 .
- 4. (Original) The wafer of Claim 2, wherein ϕ_1 is in a range between about 60° and about 75°.
- 5. (Original) The wafer of Claim 2, wherein t is in a range between about 625 μm and about 825 μm .

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Claims 6-18 (Canceled).

19. (Original) A semiconductor wafer having an asymmetric edge profile (EP2) extending between an inner edge profile (EP2_{in}) and an outer edge profile (EP2_{out}) as illustrated by FIG. 2, which is incorporated herein;

wherein t is a thickness of the semiconductor wafer, ϕ_1 is an angle in a range between about 30° and about 85°, ϕ_2 is greater than ϕ_1 and less than about 85°, R is a radius of an arc that defines EP2_{in} at a point of intersection with a top surface of the semiconductor wafer, and α is an acute angle that represents an angle of intersection between a bottom surface of the semiconductor wafer and a line that is tangent to the arc at a point on EP2_{out}; and

wherein:

$$A_1$$
=R(1-cos ϕ_1);
 A_2 =R(1-sin α) + (B_2 - Rcos α)cot α ;
 B_1 =Rsin ϕ_1 ; and
 B_2 =t-Rsin ϕ_1 .

Claim 20 (Canceled).